07068000 CURRENT RIVER AT DONIPHAN, MO

Upper White Basin
Current Subbasin

LOCATION.--Lat 36°37′19″, long 90°50′51″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.27, T.23 N., R.2 E., Ripley County, MO, Hydrologic Unit 11010008, on right bank 0.5 mi upstream from U.S. Highway 160, 1.0 mi west of Doniphan, 2.5 mi upstream from Briar Creek, and at mile 51.3.

DRAINAGE AREA.--2,038 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1918 to current year. Prior to July 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1937-38(M). WSP 927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 321.21 ft above National Geodetic Vertical Datum of 1929. Prior to July 3, 1936, nonrecording gages at several sites 0.5 mi downstream at various datums. July 1936 to Sept. 30, 1971, datum was 1.00 ft higher.

REMARKS.--Water-discharge records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1904 reached a stage of 25.9 ft, from floodmarks, present site and datum, discharge, 130,000 ft^3/s, from rating curve extended above 60,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 14,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 17	0400	15,400	8.19
Mar 14	0315	14,400	7.82
May 12	0745	*15,500	*8.23

Minimum discharge, 1,120 ft^3/s, Oct 28, 29, 30, 31, gage height, -0.15 ft.

07068000 CURRENT RIVER AT DONIPHAN, MO—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,460	1,210	4,020	1,540	2,910	1,540	2,520	3,720	2,240	1,430	1,410	1,300
2	1,450	1,270	3,350	e1,530	2,850	1,530	2,490	4,530	2,270	1,410	1,390	1,260
3	1,410	1,300	2,990	1,520	2,960	1,510	2,490	4,050	2,250	1,400	1,360	1,250
4	1,360	1,260	2,760	1,520	2,690	1,500	2,460	7,770	2,160	1,400	1,370	1,250
5	1,330	1,230	2,570	1,500	2,470	1,500	2,440	7,950	2,070	1,410	1,350	1,230
6	1,290	1,240	2,420	1,480	2,310	1,510	2,390	6,300	2,020	1,390	1,330	1,230
7	1,260	1,210	2,290	1,470	2,170	1,500	2,390	5,440	1,940	1,390	1,320	1,230
8	1,240	1,190	2,190	1,470	2,070	1,490	2,360	4,620	1,880	1,370	1,300	1,220
9	1,230	1,180	2,120	1,470	1,990	5,670	2,280	4,160	1,830	1,360	1,290	1,220
10	1,220	1,180	2,060	1,680	1,930	7,140	2,190	4,950	1,790	1,700	1,290	1,220
11	1,220	1,170	1,980	1,980	1,870	6,600	2,110	9,550	1,760	2,910	1,310	e1,340
12	1,210	1,160	1,940	2,110	1,820	6,870	2,070	14,300	1,740	5,280	1,320	e1,330
13	1,210	1,170	1,900	2,120	1,770	12,800	2,030	9,230	1,710	5,100	1,330	e1,280
14	1,190	1,170	1,860	2,120	1,730	12,100	1,990	6,770	1,680	3,310	1,300	e1,240
15	1,190	3,700	1,830	2,090	1,700	7,700	1,960	5,500	1,650	2,570	1,290	e1,220
16	1,180	12,400	1,800	2,080	1,690	6,000	1,940	4,730	1,630	2,170	e1,270	e1,200
17	1,170	10,600	1,760	2,060	1,700	5,020	1,920	4,230	1,640	1,960	e1,250	e1,220
18	1,170	4,810	1,720	1,990	1,710	4,340	1,890	3,850	1,660	1,820	e1,240	e1,290
19	1,160	3,600	1,680	1,920	1,660	3,860	1,850	3,560	1,700	1,730	e1,230	e1,250
20	1,170	3,060	1,660	1,860	1,630	3,660	1,810	3,300	1,650	1,700	e1,290	e1,210
21	1,200	2,740	1,640	1,810	1,610	3,530	1,780	3,070	1,610	1,730	e1,280	1,180
22	1,180	2,520	1,630	1,820	1,610	3,460	1,740	2,960	1,590	1,700	e1,270	1,200
23	1,160	2,360	1,620	1,840	1,610	3,370	1,710	2,830	1,600	1,590	e1,240	2,520
24	1,150	2,230	1,620	1,830	1,600	3,210	1,730	2,750	1,570	1,540	e1,270	1,870
25	1,150	2,130	1,610	1,810	1,580	3,060	1,760	2,640	1,570	1,510	e1,220	1,650
26	1,150	2,050	1,610	1,770	1,560	2,920	1,860	2,740	1,530	1,480	e1,260	1,500
27	1,140	2,100	1,590	1,740	1,540	2,780	1,900	2,590	1,510	1,450	e1,380	1,440
28	1,130	4,760	1,580	1,740	1,540	2,680	1,840	2,430	1,490	1,520	1,580	1,420
29	1,120	8,160	1,560	2,040	---	2,580	1,870	2,310	1,470	1,460	1,470	1,360
30	1,120	5,330	1,550	2,830	---	2,490	2,420	2,210	1,450	1,440	1,390	1,330
31	1,130	---	1,550	3,260	---	2,480	---	2,140	---	1,430	1,350	---
Mean	1,218	2,983	2,015	1,871	1,939	4,077	2,073	4,748	1,755	1,925	1,321	1,349
Max	1,460	12,400	4,020	3,260	2,960	12,800	2,520	14,300	2,270	5,280	1,580	2,520
Min	1,120	1,160	1,550	1,470	1,540	1,490	1,710	2,140	1,450	1,360	1,220	1,180
In.	0.69	1.63	1.14	1.06	0.99	2.31	1.14	2.69	0.96	1.09	0.75	0.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2006, BY WATER YEAR (WY)

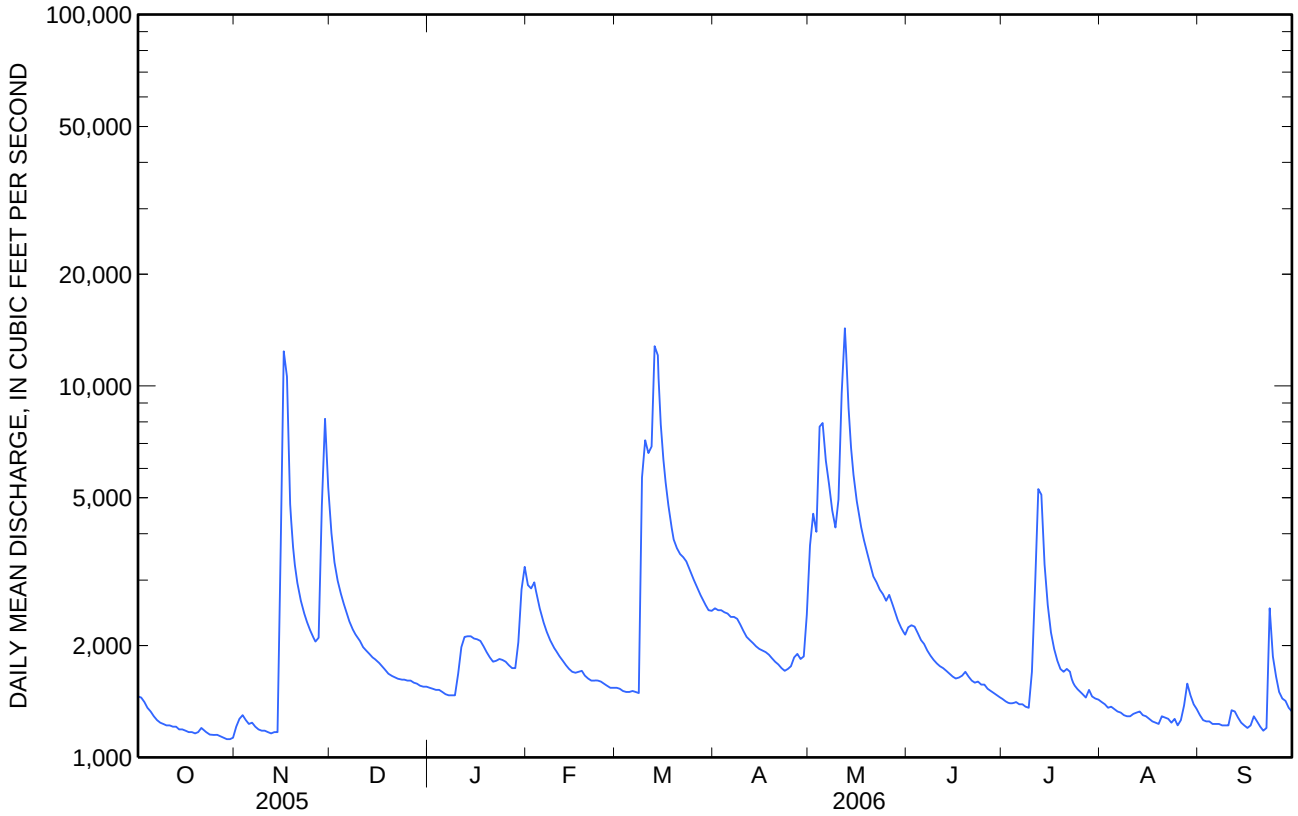
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,624	2,402	2,681	2,861	3,092	3,840	4,533	4,189	2,915	1,965	1,667	1,571
Max	4,596	8,514	16,210	9,054	7,971	9,260	16,140	14,160	12,610	7,676	5,001	4,547
(WY)	(1985)	(1994)	(1983)	(1949)	(1985)	(1935)	(1927)	(2002)	(1928)	(1951)	(1927)	(1993)
Min	872	927	950	917	1,122	1,218	1,476	1,183	1,075	959	933	903
(WY)	(1957)	(1955)	(1956)	(1956)	(1934)	(1941)	(1956)	(1936)	(1936)	(1934)	(2001)	(1954)

07068000 CURRENT RIVER AT DONIPHAN, MO—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1921 - 2006	
Annual mean	2,218		2,278		2,774	
Highest annual mean					5,856	1985
Lowest annual mean					1,326	1954
Highest daily mean	15,500	Jan 15	14,300	May 12	90,000	Mar 12, 1935
Lowest daily mean	1,120	Oct 29	1,120	Oct 29[a]	852	Oct 8, 1956[b]
Annual seven-day minimum	1,130	Oct 25	1,130	Oct 25	852	Oct 8, 1956
Maximum peak flow			15,500	May 12	122,000	Dec 3, 1982
Maximum peak stage			8.23	May 12	25.49	Dec 3, 1982
Instantaneous low flow			1,120	Oct 28[c]	852	Oct 8, 1956[b]
Annual runoff (inches)	14.78		15.18		18.49	
10 percent exceeds	3,320		3,850		4,940	
50 percent exceeds	1,680		1,700		1,920	
90 percent exceeds	1,210		1,220		1,180	

[a] Also Oct 30
[b] Also Oct 9-19, 1956
[c] Also Oct 29-31



WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1969 to July 1975, October 1979 to September 1980, October 1981 to September 1982, October 1983 to June 1989, November 1992 to current year.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 4

[Remark codes: <, less than; >, greater than; E, estimated.]

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
Oct												
24...	1250	Environmental	1,150	10.4	102	7.8	346	13.9	--	--	--	--
Nov												
15...	1010	Environmental	1,300	10.4	103	8.0	348	13.9	190	37.0	23.1	.81
Dec												
05...	1510	Environmental	2,550	11.8	104	8.1	271	9.4	--	--	--	--
05...	*1511*	*Replicate*	--	*11.9*	*104*	*8.1*	*272*	*9.3*	--	--	--	--
Jan												
17...	1330	Environmental	2,050	11.4	104	8.0	316	10.0	180	37.5	21.4	.84
Feb												
13...	1130	Environmental	1,780	12.9	107	8.0	278	6.9	--	--	--	--
Mar												
15...	1430	Environmental	7,380	9.5	91	8.0	239	12.9	--	--	--	--
Apr												
26...	1015	Environmental	1,850	8.6	93	8.2	315	18.4	--	--	--	--
May												
10...	1230	Environmental	4,970	8.6	92	7.4	269	17.0	150	31.1	17.7	.89
Jun												
13...	1000	Environmental	1,710	8.1	94	8.1	301	20.9	--	--	--	--
Jul												
10...	1530	Environmental	2,490	6.8	79	8.0	258	21.9	130	26.5	15.7	1.25
Aug												
07...	1230	Environmental	1,320	7.9	99	8.1	331	26.5	--	--	--	--
Sep												
11...	1415	Environmental	1,220	9.4	108	8.3	340	21.7	--	--	--	--

07068000 CURRENT RIVER AT DONIPHAN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 2 of 4
[Remark codes: <, less than; >, greater than; E, estimated.]

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, field, mg/L as CaCO3 (00410)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicar-bonate, wat unf incrm. titr., field, mg/L (00450)	Carbon-ate, wat unf incrm. titr., field, mg/L (00447)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, sus-pended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
Oct													
24...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	.18
Nov													
15...	1.87	182	183	223	<1	2.79	<.10	3.12	191	<10	<.10	<.04	.16
Dec													
05...	--	--	--	--	--	--	--	--	--	11	<.10	<.04	.43
05...	--	--	--	--	--	--	--	--	--	*<10*	*<.10*	*<.04*	*.45*
Jan													
17...	1.73	151	152	185	<1	2.38	<.10	3.53	176	<10	<.10	<.04	.25
Feb													
13...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	.27
Mar													
15...	--	--	--	--	--	--	--	--	--	17	.16	<.04	.31
Apr													
26...	--	--	--	--	--	--	--	--	--	<10	<.10	<.04	.23
May													
10...	1.34	129	130	158	<1	1.98	<.10	3.54	151	11	.11	<.04	.22
Jun													
13...	--	--	--	--	--	--	--	--	--	<10	<.10	.028	.17
Jul													
10...	1.28	126	126	154	<1	1.87	<.10	2.61	138	144	.69	<.010	<.06
Aug													
07...	--	--	--	--	--	--	--	--	--	<10	.11	<.010	.12
Sep													
11...	--	--	--	--	--	--	--	--	--	<10	<.10	<.010	.17

07068000 CURRENT RIVER AT DONIPHAN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 3 of 4
[Remark codes: <, less than; >, greater than; E, estimated. Microbiology results with a remark code of E are based on non-ideal colony counts.]

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli-form, M-FC 0.7u MF col/ 100 mL (31625)	Alum-inum, water, fltrd, ug/L (01106)	Alum-inum, water, unfltrd recover-able, ug/L (01105)	Arsenic water, fltrd, ug/L (01000)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)
Oct													
24...	<.008	<.04	<.04	<.04	E3	E4	--	--	--	--	--	--	--
Nov													
15...	<.008	<.02	<.04	<.04	E29	E32	<1.6	12	.18	<.04	<.04	<.4	<6
Dec													
05...	<.008	<.02	<.04	<.04	E10	E15	--	--	--	--	--	--	--
05...	*<.008*	*<.02*	*<.04*	*<.04*	*E7*	*21*	--	--	--	--	--	--	--
Jan													
17...	<.008	<.02	<.04	<.04	<1	E4	<1.6	20	.33	<.04	<.04	.6	<6
Feb													
13...	<.008	<.02	<.04	<.04	<1	E1	--	--	--	--	--	--	--
Mar													
15...	<.008	<.04	<.04	<.04	64	120	--	--	--	--	--	--	--
Apr													
26...	<.008	<.02	<.04	<.04	39	E80	--	--	--	--	--	--	--
May													
10...	<.008	<.09	<.04	<.04	E34	E200	1.9	109	.15	<.04	<.04	.5	<6
Jun													
13...	<.002	<.006	<.04	<.04	E4	E8	--	--	--	--	--	--	--
Jul													
10...	.005	.014	<.04	.12	>1,600	>1,200	6.8	1,060	.38	<.04	.05	<.40	11
Aug													
07...	<.002	<.006	<.04	<.04	E2	E4	--	--	--	--	--	--	--
Sep													
11...	<.002	<.006	<.04	<.04	E3	E11	--	--	--	--	--	--	--

07068000 CURRENT RIVER AT DONIPHAN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 4 of 4
[Remark codes: <, less than; >, greater than; E, estimated.]

Date	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover -able, ug/L (01051)	Mangan- ese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover -able, ug/L (71900)	Selen- ium, water, fltrd, ug/L (01145)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)
Oct							
24...	--	--	--	--	--	--	--
Nov							
15...	.08	<.06	1.5	.010	.09	1.2	<2
Dec							
05...	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--
Jan							
17...	<.08	<.06	3.6	<.010	.24	<.6	<2
Feb							
13...	--	--	--	--	--	--	--
Mar							
15...	--	--	--	--	--	--	--
Apr							
26...	--	--	--	--	--	--	--
May							
10...	<.08	.40	4.7	<.010	.08	<.6	4
Jun							
13...	--	--	--	--	--	--	--
Jul							
10...	<.08	3.90	13.8	<.010	.10	<.60	5
Aug							
07...	--	--	--	--	--	--	--
Sep							
11...	--	--	--	--	--	--	--